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Forest  
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File Code: 3410  
Route To:

Date: February 14, 2002

Subject: 2001 Insect and Disease Aerial Detection Survey, Fort Apache Indian Reservation

To: Area Director, Bureau of Indian Affairs, Phoenix Area Office

The annual forest insect and disease aerial detection survey (ADS) was begun on the Fort Apache Indian Reservation on August 20 and 21, 2001, and completed September 25, 2001, after the airspace shutdown. Following is a brief summary of the results of this survey.

A total of 7,069 acres of bark beetle activity in ponderosa pine was recorded in 2001. This represented 6,703 acres with mortality attributed to *Ips* spp., and 366 acres to western pine beetle. This represents a significant increase over 2000, when only 415 acres were recorded. Pinyon *Ips* was recorded on 59 acres of Reservation land in 2001.

No Douglas-fir mortality was recorded in 2001, and true fir mortality was recorded on just 7 acres.

Spruce mortality increased in 2001 to 36,229 acres, from 35 acres in 2000. The trees/acre of mortality varied from 5 to 26 trees/acre. Most of the mortality appeared to be related to the defoliation during the spruce aphid outbreak, winter 1999-2000. Due to the amount of mortality, it was difficult to determine whether there was defoliation by this insect during the winter 2000-2001. While ground checking showed some spruce aphid feeding, it appeared that populations were much reduced. Several large areas of spruce and fir mortality were recorded at high elevations on Mt. Baldy. These areas (1,184 acres) represent residual mortality from the *Nepytia janetae* outbreak during 1997-98. Some trees that had been heavily defoliated have never recovered and have been slowly dying. Little indication of bark beetle activity has been found in these areas.

Aspen defoliation was recorded on 6,967 acres of the Reservation in 2001, down from 9,145 acres in 2000.

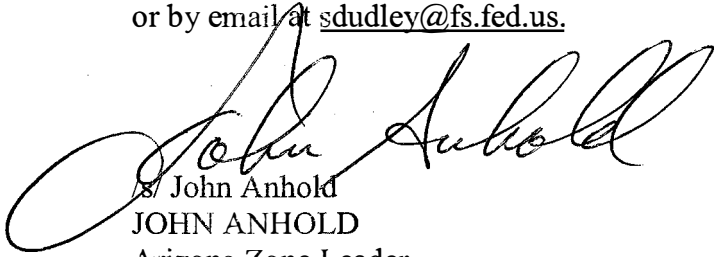
No western spruce budworm defoliation was apparent on the Reservation in 2001.

Fire was recorded on 819 acres of the Reservation.

Electronic copies of the map files and ADS pest data are available to the Area Office, Fort Apache Bureau of Indian Affairs staff, and Tribal Forestry staff. We are in the process of creating hard copy maps of the 2001 ADS pest information and will be sending those upon availability. Please forward this letter to the appropriate personnel.



If you have any questions concerning the survey, the information included here, or the availability of electronic maps or pest data, please feel free to contact Bobbe Fitzgibbon at 928-556-2072 or by email at [bfitzgibbon@fs.fed.us](mailto:bfitzgibbon@fs.fed.us) or Steve Dudley by phone at 928-556-2071 or by email at [sdudley@fs.fed.us](mailto:sdudley@fs.fed.us).

A large, stylized handwritten signature in black ink, which appears to read "John Anhold". The signature is written in a cursive, flowing style with a large initial "J".

/s/ John Anhold  
JOHN ANHOLD  
Arizona Zone Leader  
Forest Health

cc:

llucero

dlparker01

dallenreid

bfitzgibbon

Maurice Williams, Fort Apache Agency